

From: Cynthia Caporale/ESC/R3/USEPA/US
Sent: 3/16/2012 11:36:56 AM
To: Robin Costas/ESC/R3/USEPA/US@EPA
CC:
Subject: Fw: Verification/Completeness Check for WO1202015 PART2 Posted Feb 29 and WO1202001 PART 2 Posted Mar 05)

I know you are looking some of these up (let me know if you want me to do that). Here are additional responses based on what we replied before.

Cynthia Caporale, Chief
OASQA Laboratory Branch
U.S. EPA Region III
Environmental Science Center
Fort Meade, MD
(410) 305-2732
Fax: (410) 305-3095

----- Forwarded by Cynthia Caporale/ESC/R3/USEPA/US on 03/16/2012 11:36 AM -----

From: Cynthia Caporale/ESC/R3/USEPA/US
To: [REDACTED] Ex. 4 - CBI @lmco.com>
Cc: [REDACTED] Ex. 4 - CBI @lmco.com>, Gary Newhart/CI/USEPA/US@EPA, John Gilbert/CI/USEPA/US@EPA, Kelley Chase/R3/USEPA/US@EPA, [REDACTED] Ex. 4 - CBI @lmco.com>, Sella Burchette/ERT/R2/USEPA/US@EPA, Robin Costas/ESC/R3/USEPA/US, Sue Warner/ESC/R3/USEPA/US, Peggy Zawodny/ESC/R3/USEPA/US
Date: 03/16/2012 11:25 AM
Subject: Re: Verification/Completeness Check for WO1202015 PART2 Posted Feb 29 and WO1202001 PART 2 Posted Mar 05)

The report on the Dimock Verification/Completeness Check for file 1201015 FINAL Part 2 of 3 R33907 02 28 12 1647.pdf was reviewed and below are the responses for your consideration.

File [1201015 FINAL PART 2 of 3 R33907 02 28 12 1647.pdf](#)

1. For VOCs, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, trip in that order) in accordance with the National Functional Guidelines: Acetone 3.8U, methylene chloride 2.6J, naphthalene 0.5U, toluene 0.6J for sample EB01, acetone 3.9U, chloroform 7.1U, methylene chloride 2.7J, naphthalene 0.5U and toluene 0.9J for sample FB06, acetone 2.0U for samples HW18, HW26, HW20, HW20-P, HW32-P, HW33 and HW33a-P; acetone 3.3U for samples HW13 and HW18-P; acetone 2.0U and chloroform 0.5U for samples HW35 and HW52; acetone 2.2J for sample HW33b-P; acetone 3.1U for sample HW29z and chloroform 0.5U for FB07.

Response: Elevating the QL and qualifying "U" is not the typical procedure for R3 validation; however, if appropriate for this project we support that decision.

2. For VOCs, the LCS and MS recoveries (Batches BB20202 and BB21007) for styrene and o-xylene are missing from the laboratory report.

Response:

3. For VOCs, the LCS recovery for Batch BB21007 for 1,2-dibromo-3-chloropropane (78%) was outside of the 80-120% criterion. Results for DBCP for samples HW26-P, HW26, HW35, HW32, HW32-P, TB13, HW33, HW33a-P, HW33b-P, TB12, HW29z, HW29, HW52, FB07, TB10 and TB11 are qualified estimated "UJ".

Response:

4. For VOCs, the MS/MSD recoveries for bromomethane (34%/45%) for sample HW35 were outside the 70-130% criterion. Bromomethane results for sample HW35 should be qualified "UJ".

Response:

5. For VOC analysis, there doesn't appear to be any precision and accuracy data for cyclohexane, Freon 113, methylacetate, methylcyclohexane or MTBE for the LCS or the MS. It is recommended that results for these compounds for all samples in this data set be flagged as estimated "UJ".

Response: Freon 113, methyl acetate, MTBE, cyclohexane and methyl cyclohexane are not included in the LCS. These compounds are part of the matrix spikes for samples 1201015-XX and 1201015-XX. Recoveries for all 5 compounds were within limits of 80-120%.

6. For SVOCs, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: bis(2-ethylhexyl)phthalate 5.00U, diethyl phthalate 5.00U and di-n-butylphthalate 5.00U for samples EB01, FB06, HW18, HW13, HW18-P, HW25-P, HW26-P, HW26, HW35, HW20-P, HW32, HW-32P, HW33, HW52 and FB07; and bis(2-ethylhexyl)phthalate 5.00U, diethylphthalate 5.00U, di-n-butylphthalate 5.00U and butylbenzylphthalate 5.00U for samples HW20; HW33a-P, HW33b-P, HW29z and HW29.

Response: Elevating the QL and qualifying "U" is not the typical procedure for R3 validation; however, if appropriate for this project we support that decision.

7. For SVOCs prepared on 2/6/12 in BB20601, the mid-level spike (LCS) was spiked at 40 µg/L instead of 60 µg/L previously used. Reporting limits for pentachlorophenol should be changed to 40µg/L for samples HW25-P, HW26-P, HW26, HW35, HW20, HW20-P, HW32, HW32-P, HW33, HW33a-P, HW33b-P, HW29z, HW29, HW52 and FB07.

Response: We agree with this comment. A supplemental report with the corrections can be generated upon request.

8. For SVOC Batch 20601, it is stated in the case narrative that results for 2-methoxyethanol and 1-methylnaphthalene are qualified "UJ" since the LCS did not contain these compounds. This reviewer agrees with the qualification but recommends that the reporting limit be raised to 60 µg/L for 2-methoxyethanol since previous batches have indicated that the recovery of this analyte at this concentration is acceptable. The reporting limit for samples identified as HW25-P, HW26-P, HW26, HW35, HW20, HW20-P, HW32, HW32-P, HW33, HW33a-P, HW33b-P, HW29z, HW29, HW52 and FB07.

Response: We agree with this comment. A supplemental report with the corrections can be generated upon request. Also note that results for 2-methoxyethanol are also available with the report on glycols (WO 1201015 PART 1 of 3).

9. This reviewer agrees with the raising the reporting limit to 60 µg/L for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, hexachlorocyclopentadiene, 2-methoxyethanol, 4-nitrophenol, pentachlorophenol and 2,3,4,6-tetrachlorophenol for samples EB01, FB06, HW18, HW13 and HW18-P.

Response: Agree.

10. For SVOCs, FB07 is missing a "UJ" qualifier on the laboratory report for 1-methylnaphthalene. A qualifier of "UJ" needs to be added to the result qualifier column in Scribe for this compound and sample.

Response: We agree with this comment. A supplemental report with the corrections can be generated upon request.

11. It is assumed that all required instrument QC (RSD, %D, minimum response factors, etc.) specified by the method was run and was either within the criteria listed in the EPA R3 SOPs or qualified based on any deficiencies.

Response: This assumption is correct and future reports will include a statement in the narrative.

The report on the Dimock Verification/Completeness Check for file 1202001 FINAL Part 2 of 3 R33907 03 12 12 0847.pdf was reviewed and below are the responses for your consideration.

File 1202001 FINAL PART 2 of 3 R33907 03 05 12 0847.pdf

1. For VOCs, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, trip in that order) in accordance with the National Functional Guidelines: Acetone 2.0U for samples HW42, HW46, HW46-P, HW34a, HW42z, HW34a-P, HW28a-P, HW40, HW40-P, HW28b-P and HW09; acetone 6.7U and toluene 0.9U for sample FB09; acetone 2.8U, bromodichloromethane 0.5U, 2-butanone 2.0U, chloroform 0.5U and o-xylene 1.0U for sample FB08; acetone 2.0U and toluene 0.5U for samples HW39, HW41 and HW41-P; bromodichloromethane 0.5U, 2-butanone 2.0U, chloroform 0.5U, toluene 0.5U and o-xylene 0.5U for FB10; and acetone 3.1U for HW39-P. For the remaining results in this batch, "U" and "J" qualifiers should be carried over into the result qualifier column.

Response: Elevating the QL and qualifying "U" is not the typical procedure for R3 validation; however, if appropriate for this project we support that decision.

2. For VOCs, the bromomethane recovery for the MSD (63%) was outside of the QC criterion for HW39. Bromomethane results for sample HW39 should be qualified estimated "UJ".

Response:

3. For VOC analysis, there doesn't appear to be any precision and accuracy data for cyclohexane, Freon 113, methylacetate, methylcyclohexane or MTBE for the LCS or the MS. It is recommended that results for these compounds for all samples in this data set be flagged as estimated "UJ".

Response: Freon 113, methyl acetate, MTBE, cyclohexane and methyl cyclohexane are not included in the LCS. These compounds are part of the matrix spikes for samples 1201015-XX and 1201015-XX. Recoveries for all 5 compounds were within limits of 80-120%.

4. For VOCs, the LCS, MS and MSD recoveries (Batch BB21005) for styrene and o-xylene are missing from the laboratory report.

Response:

5. For SVOCs, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: bis(2-ethylhexyl)phthalate 5.00U, diethyl phthalate 5.00U and di-n-butylphthalate 5.00U for samples HW42, FB09, FB08, HW34a-P, HW28a, HW28a-P, HW39-P, HW40, HW40-P, HW41, HW41-P, HW28b-P, HW09, HW09-P and FB10; bis(2-ethylhexyl)phthalate 5.00U and di-n-butylphthalate 5.00U for samples HW46, HW46-P, HW34a and HW42z; and diethylphthalate 4.76U and di-n-butylphthalate 4.76U for sample HW39. This reviewer agrees with the remaining qualifiers assigned to samples based on LCS and MS/MSD deficiencies. All lab qualifiers with the exception of the "B" flag should be carried over to the result qualifier column in Scribe.

Response: Elevating the QL and qualifying "U" is not the typical procedure for R3 validation; however, if appropriate for this project we support that decision.

6. It is assumed that all required instrument QC (RSD, %D, minimum response factors, etc.) specified by the method was run and was either within the criteria listed in the EPA R3 SOPs or qualified based on any deficiencies.

Response: This assumption is correct and future reports will include a statement in the narrative.

Cynthia Caporale, Chief
OASQA Laboratory Branch
U.S. EPA Region III
Environmental Science Center
Fort Meade, MD
(410) 305-2732
Fax: (410) 305-3095

From: Ex. 4 - CBI @lmco.com>

To: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Kelley Chase/R3/USEPA/US@EPA
Cc: John Gilbert/CI/USEPA/US@EPA, Gary Newhart/CI/USEPA/US@EPA, Sella Burchette/ERT/R2/USEPA/US@EPA, **Ex. 4 - CBI**
Ex. 4 - CBI @lmco.com>, **Ex. 4 - CBI** @lmco.com>
Date: 03/09/2012 02:56 PM
Subject: Verification/Completeness Check for WO1202015 PART2 Posted Feb 29 and WO1202001 PART 2 Posted Mar 05)

Please use this as the official version. I made a correction to the footer identifying the document number.

Ex. 4 - CBI

Lockheed Martin
Scientific, Engineering, Response and Analytical Services (SERAS)

Ex. 4 - CBI

[attachment "SERAS-172-DSR-030912_17.docx" deleted by Cynthia Caporale/ESC/R3/USEPA/US]